



Name: \_\_\_\_\_  
Mr. Tiénou-Gustafson, Mr. Bielmeier  
Geometry, Period \_\_\_\_\_  
Due Date: Thu, 18 Sep 2014

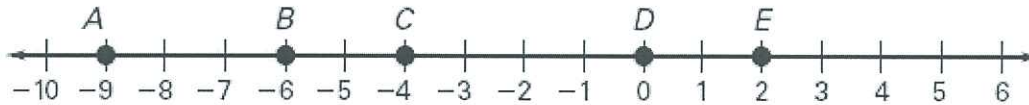
HW14\_Distance&AbsoluteValue

Form A

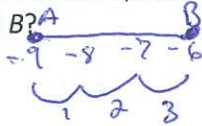
**Geometry  
Homework**

Failure to show work and write in complete sentences will result in a LaSalle. Answers should be boxed.

Use the number line below to answer questions 1 – 4.



1. What is the distance, in coordinate units, between points A and B?



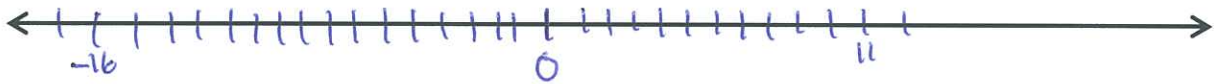
2. What is the distance, in coordinate units, between points B and E?

3. How much longer is  $AD$  than  $BE$ ?

4. How much longer is  $CD$  than  $DE$ ?

Use the description of a number line below to answer questions 5 – 8. Sketch the number line below before answering the questions. (Your line does not need to be to scale. Be sure to label the line that is 0 in addition to the numbers below.)

On a number line, point  $W$  is located at 3,  $X$  is located at  $-5$ ,  $Y$  is located at  $-16$ , and  $Z$  is located at 11.



5. What is the distance, in coordinate units, between points  $W$  and  $Z$ ?

6. What is the distance, in coordinate units, between points  $Y$  and  $Z$ ?

7. How much longer is  $WY$  than  $XZ$ ?

8. How much longer is  $YZ$  than  $WX$ ?

Challenge!

7. Find the distance between 8 and -19.

$$|8 - (-19)| \quad \text{or} \quad |-19 - 8|$$

8. Find the distance between -111 and -222.

9. Find the distance between 21 and -1.

10. Find the distance between -30 and -44.